**More fun with fractions – Part 2**

Please work with your group to complete these. Don’t move forward until everyone in your group is comfortable with your group’s solution strategies.

Part 1 of your task:

Use a model to solve each of the following. For each, write a number sentence showing the operation you would use to solve computationally. How do you know that is the correct operation?

1. Ike has 1/3 of a cake. He wants to split it evenly in 4 containers. How much cake should he put in each container?
2. Ike has 2/3 of a cake. He wants to split it evenly in 3 containers. How much cake should he put in each container?
3. Ike has 1/3 of a cake. It takes up exactly ½ of his container. How much cake would fill up the whole container?
4. Ike has 2 whole cakes. They fill up exactly 2/3 of his container. How much cake would fill up the whole container?
5. Ike has 3 whole cakes. They fill up exactly 2/3 of his container. How much cake would fill up the whole container?
6. Ike has ¾ of a cake. It fills up exactly 2/3 of his container. How much cake would fill up the whole container?
7. It takes Ike ¾ of an hour to paint 2/5 of a room. How long would it take him to paint the whole room? How much of a room (or how many rooms) could he paint in one hour?

Part 2 of your task

* Generalize. What strategy are you using to solve these problems with a diagram? Could you translate this process to an algorithm?